

CLAIM AMENDMENTS

Claims 1-18 (canceled)

19. (new) A monolithic material comprising aligned, uniform fibrils characterized by an average diameter of no more than one micrometer, said fibrils further characterized by suitability for surface chemistry tailoring for organic ligand grafting, said fibrils defining gaps therebetween, said gaps characterized by an average diameter of no more than one micrometer, said monolithic material further characterized by a separation matrix in the direction of alignment of said fibrils, said monolithic material further characterized by at least one anisotropic property suitable for at least one of the group consisting of: electrophoretic separation, electrochromatography, and catalysis.
20. (new) The monolithic material of Claim 19 wherein at least one surface of said monolithic material is functionalized.